

## عنوان مقاله:

Template-Confined Growth of X-Bi2MoO6 (X: F, Cl, Br, I) Nanoplates with Open Surfaces for photocatalytic oxidation

## محل انتشار:

دومین کنفرانس کاتالیست انجمن شیمی ایران (سال: 1398)

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## خلاصه مقاله:

The present work describes a series of two-dimensional architecture of CTAB-assisted X-Bi2MoO6 (X: F, Cl, Br, I) with opensurfaces for adsorption and photodegradation of RhB.The effects of Halogen-doping and surfactant on the physicochemical propertiesof Bi2MoO6 are investigated by different analysis. Based on the XRD patterns, the crystal planes of Bi2MoO6 were affected by the substitution of X- anions for the host O2- (mainly by F-) [1]. FE-SEM images confirmed the confined growth of nanoplates under theinfluence of CTAB template, which leads to surface doping of more halogen ions within oriented nucleation process [2]. The results indicated all of the X-doped catalysts, especially F-doped sample, show enhanced photocatalytic activity with different levels, due tolower band gap, improved charge .separation, and surface properties

کلمات کلیدی:

Photocatalytic degradation; Bi2MoO6; halogen-doping

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